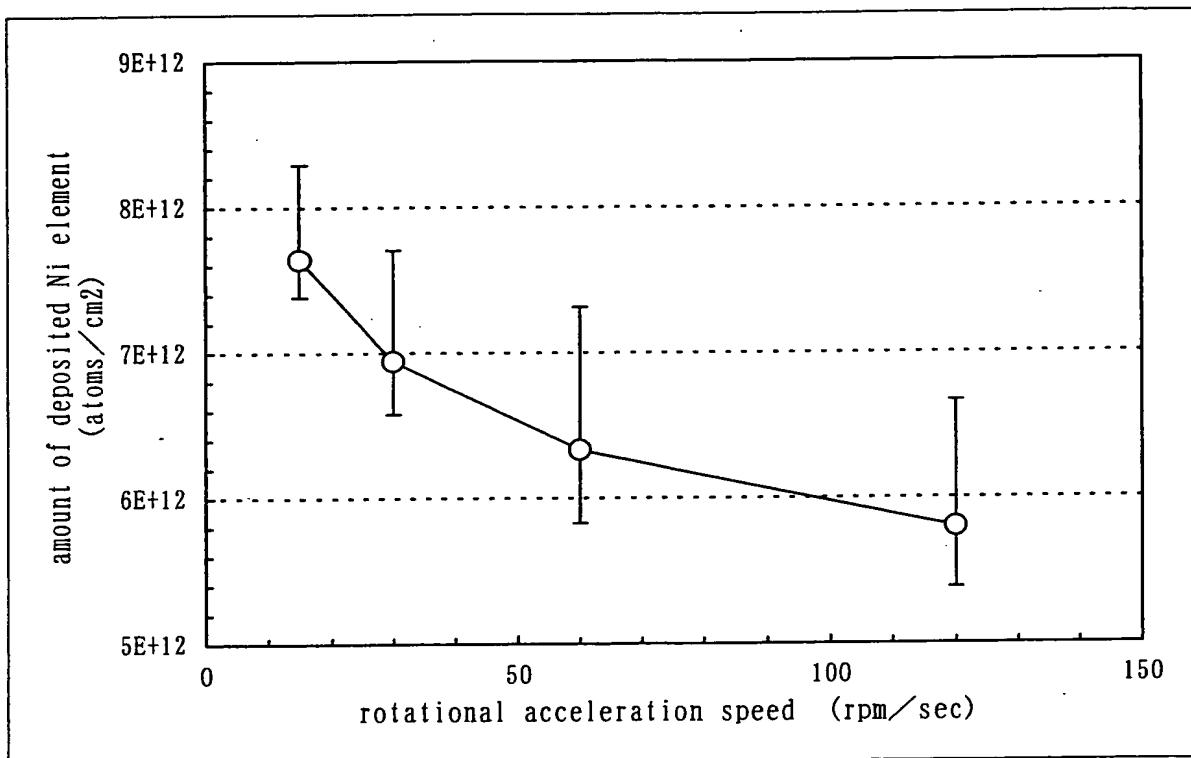
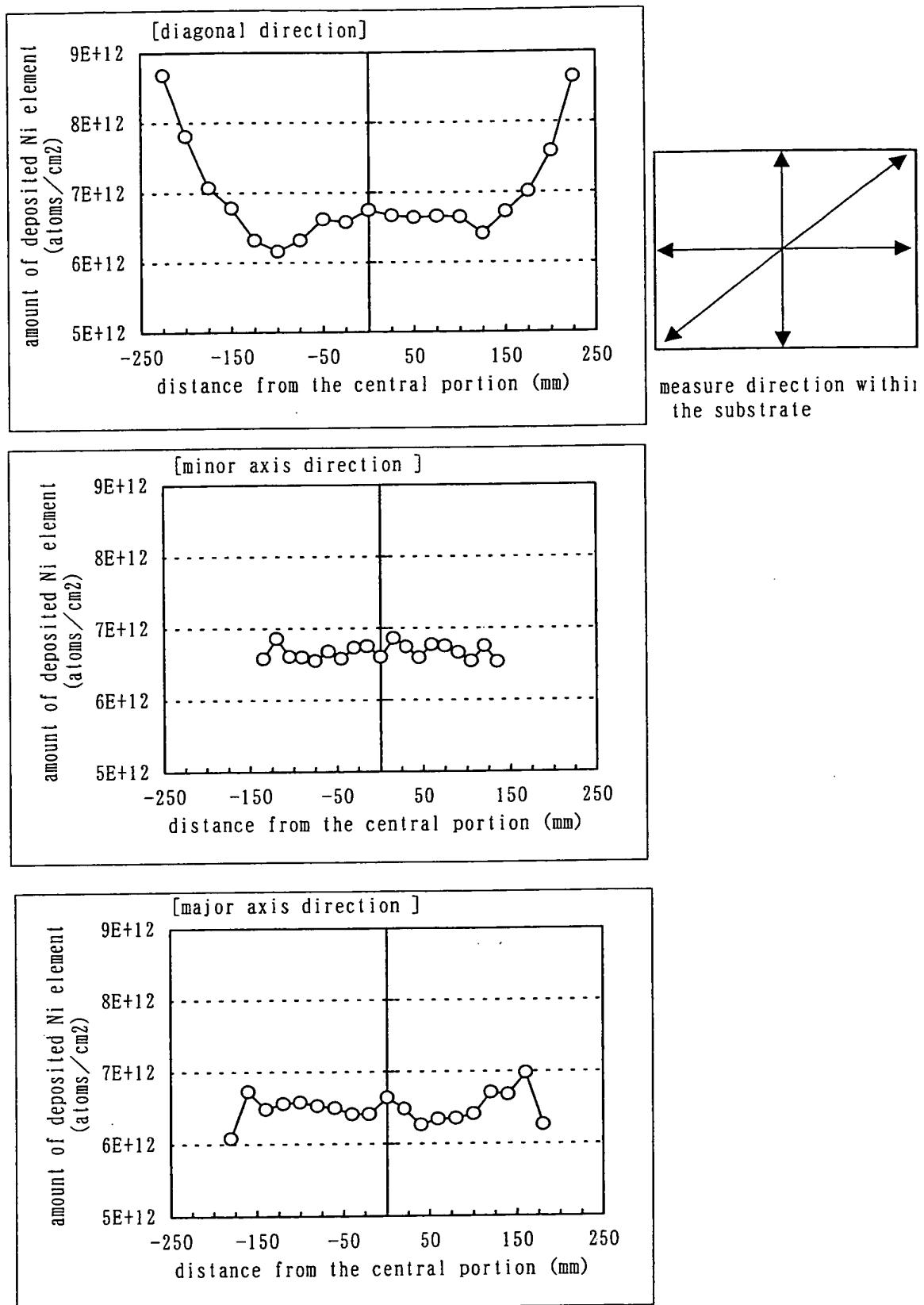


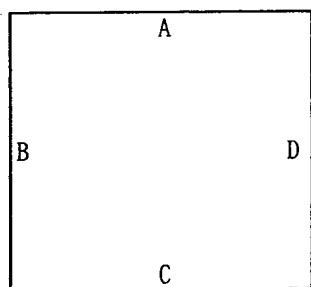
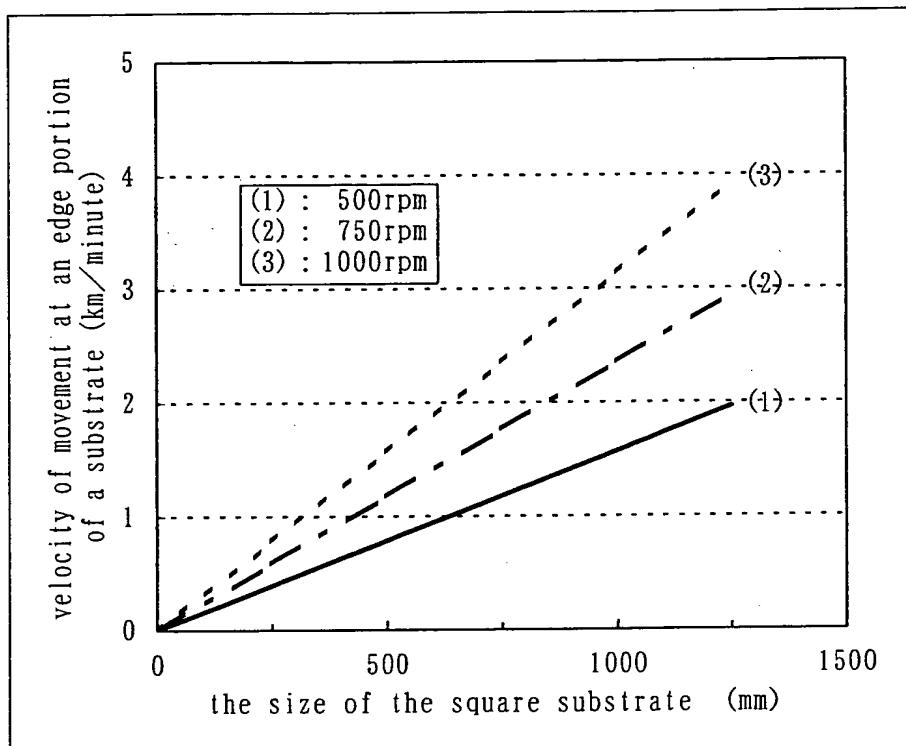
F I G. 1





F I G. 2

F I G. 3



Edge portions of the substrate correspond to A-D in the square substrate.

F I G. 4

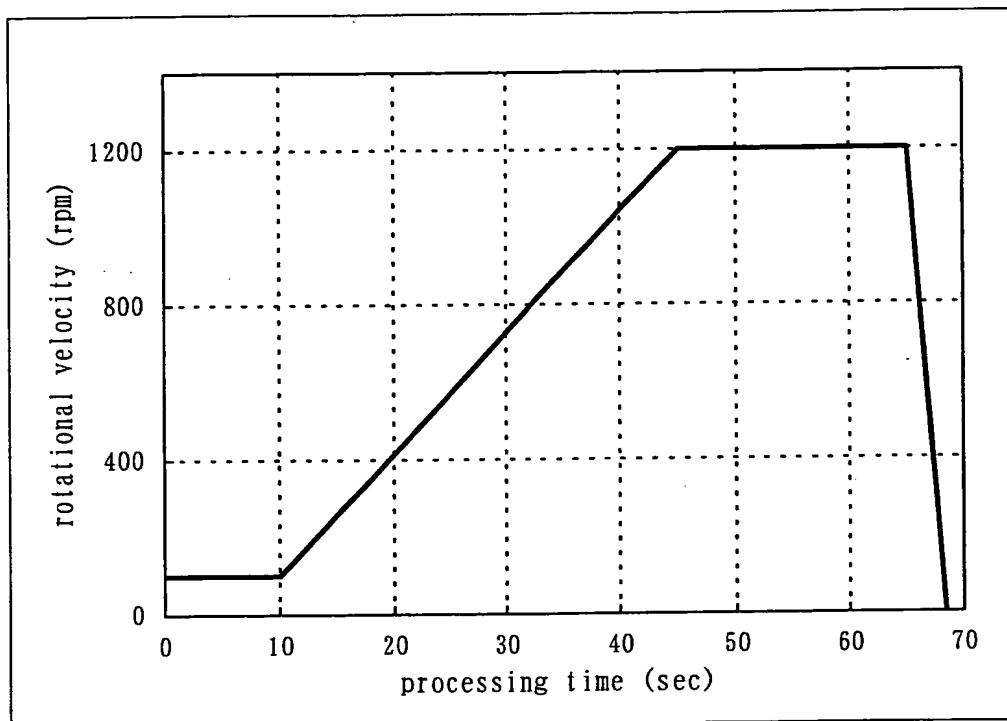
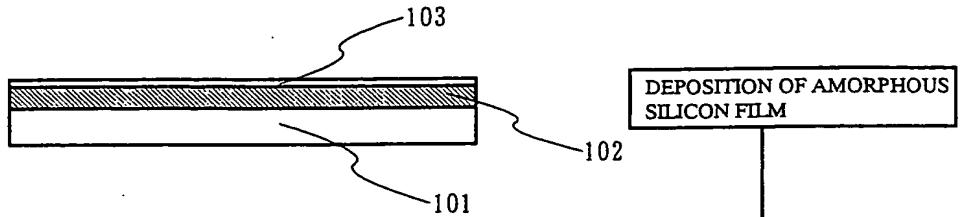


FIG. 5A



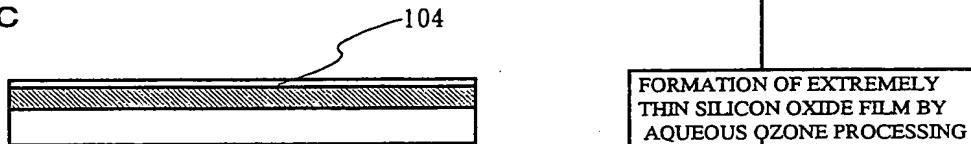
DEPOSITION OF AMORPHOUS SILICON FILM

FIG. 5B



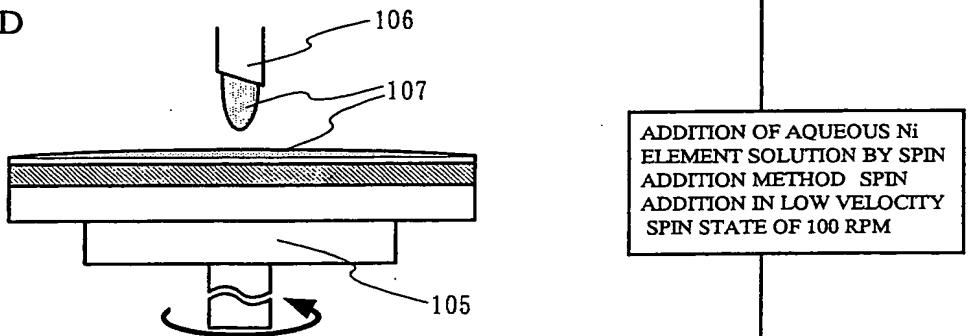
REMOVAL OF NATURAL OXIDE FILM BY DILUTE HYDROFLUORIC ACID PROCESSING

FIG. 5C



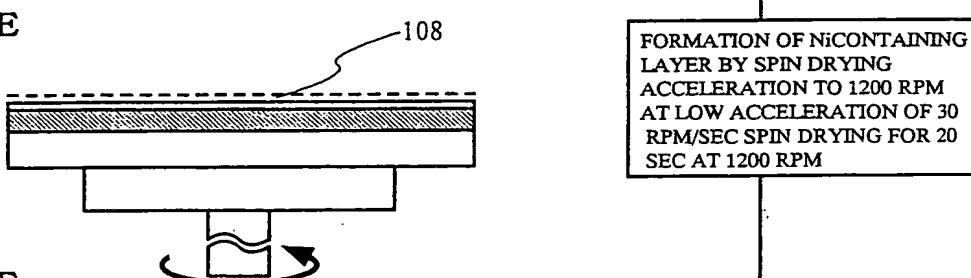
FORMATION OF EXTREMELY THIN SILICON OXIDE FILM BY AQUEOUS OZONE PROCESSING

FIG. 5D



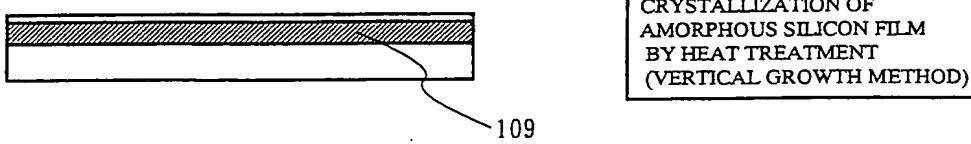
ADDITION OF AQUEOUS Ni ELEMENT SOLUTION BY SPIN ADDITION METHOD SPIN ADDITION IN LOW VELOCITY SPIN STATE OF 100 RPM

FIG. 5E



FORMATION OF Ni CONTAINING LAYER BY SPIN DRYING ACCELERATION TO 1200 RPM AT LOW ACCELERATION OF 30 RPM/SEC SPIN DRYING FOR 20 SEC AT 1200 RPM

FIG. 5F



CRYSTALLIZATION OF AMORPHOUS SILICON FILM BY HEAT TREATMENT (VERTICAL GROWTH METHOD)

FIG. 6A

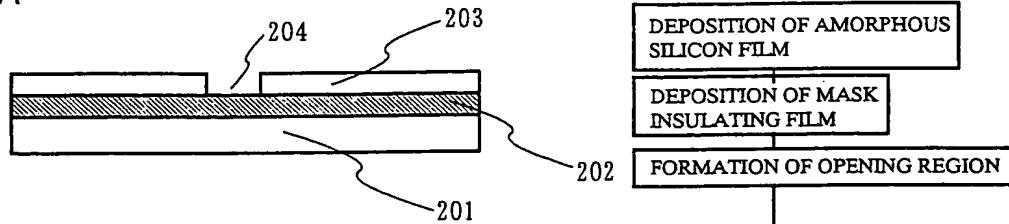


FIG. 6B

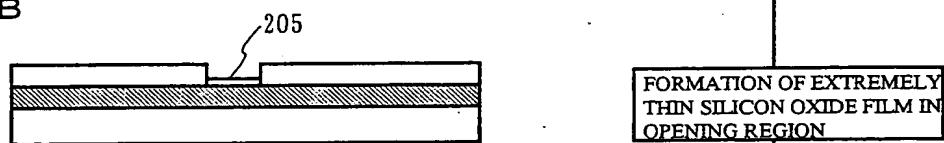


FIG. 6C

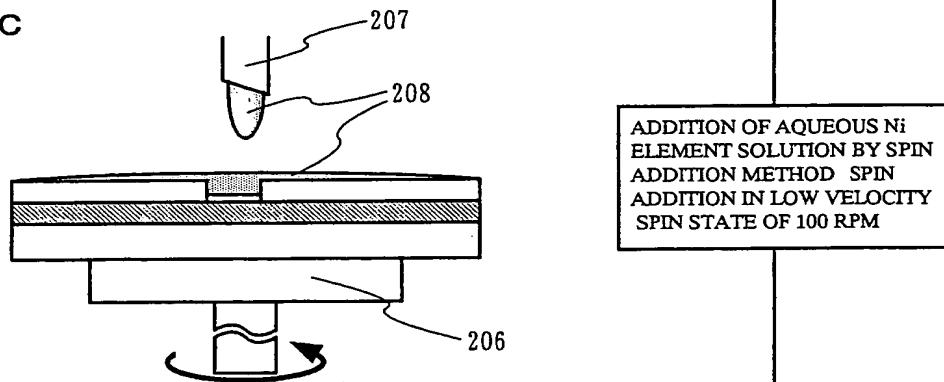


FIG. 6D

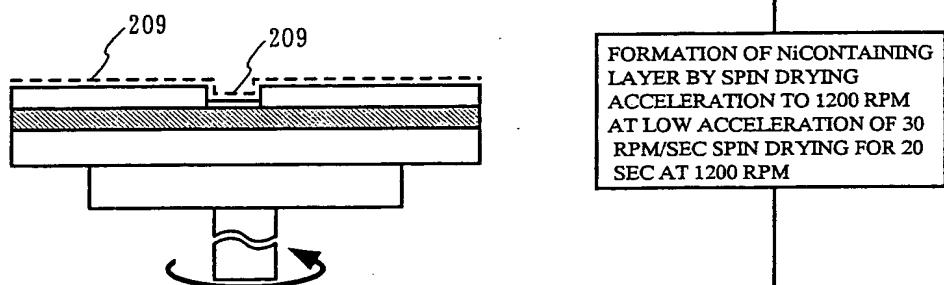


FIG. 6E

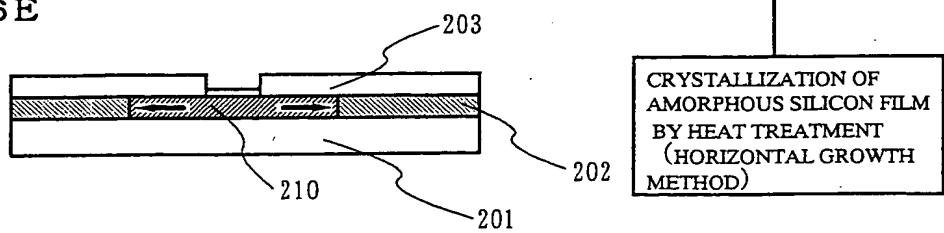


FIG. 7A DEPOSITION OF AMORPHOUS SILICON FILM/PREPROCESS/ADDITION OF NI ELEMENT SOLUTION
ADDITION OF NI ELEMENT SOLUTION

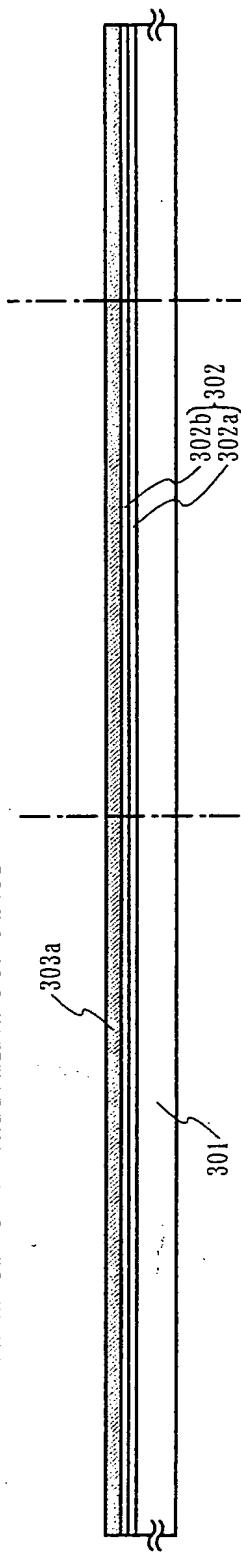


FIG. 7B DEHYDROGENATION/ TERMAL CRYSTALLIZATION(HEAT TREATMENT/IN THE ELECTROTHERMAL
FURNACE+LASER IRRADIATION TREATMENT)

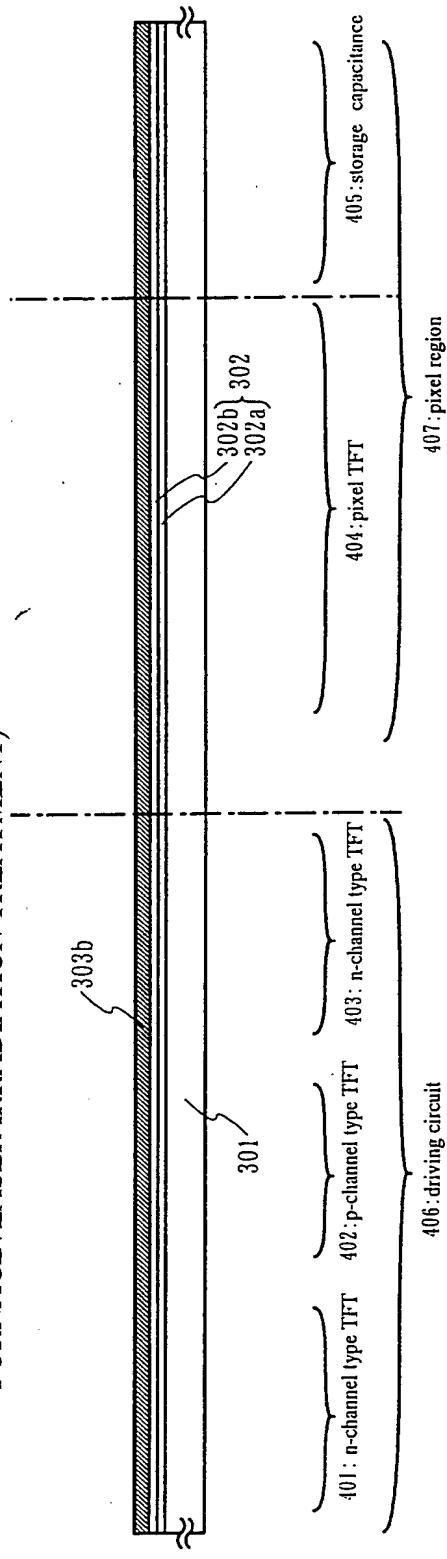


FIG. 8A FORMATION OF SEMICONDUCTOR FILMS

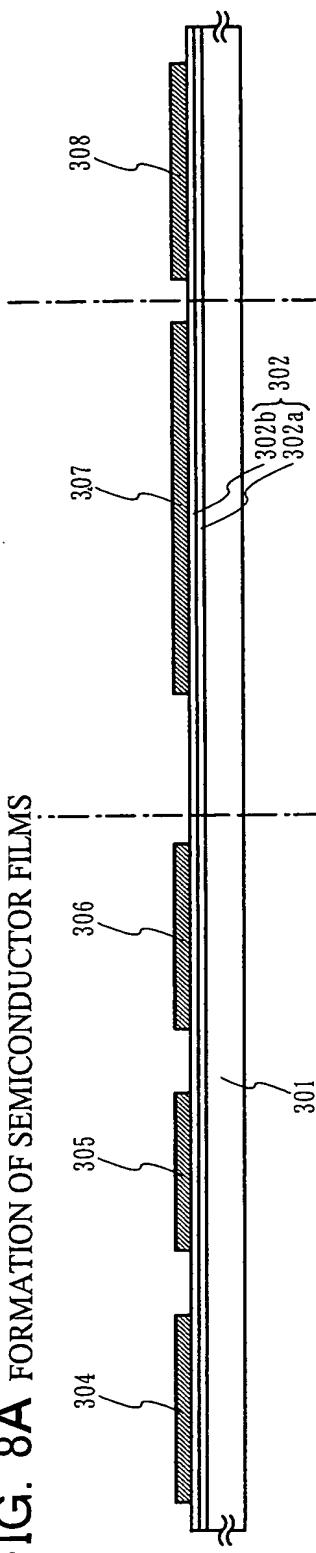


FIG. 8B DEPOSITING THE GATE INSULATING FILM/DEPOSITING THE GATE ELECTRODE

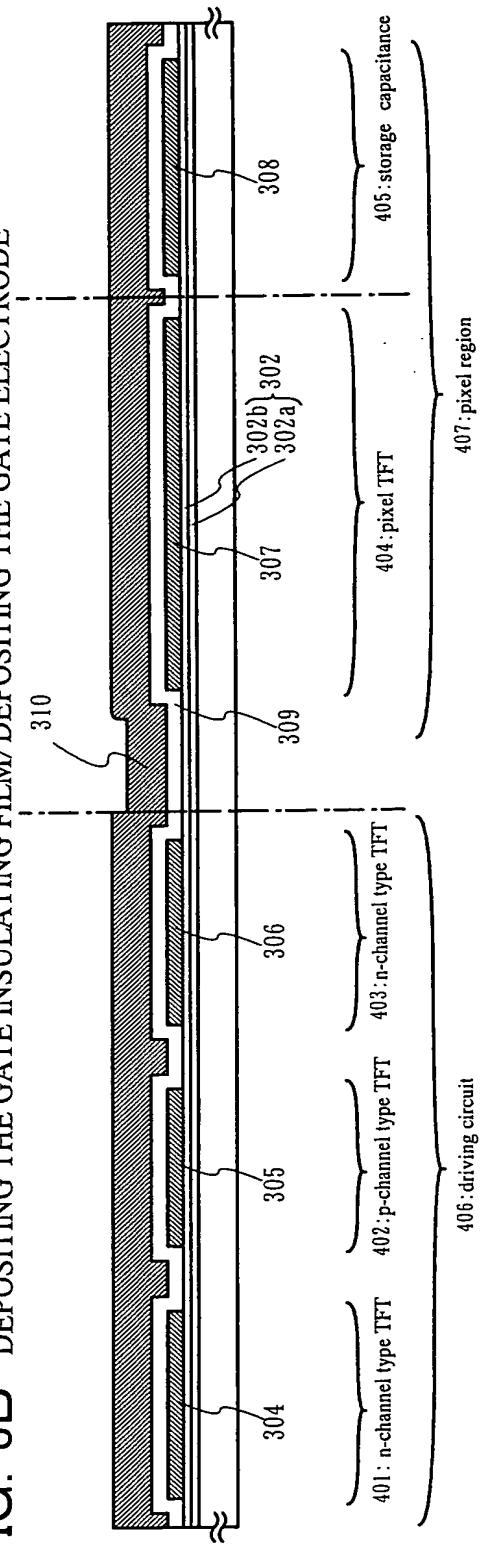


FIG. 9A FORMATION OF RESIST PATTERNS FOR GATE ELECTRODES/DRY ETCHING/FIRST ION DOPING
PROCESS(FORMATION OF N-REGIONS)

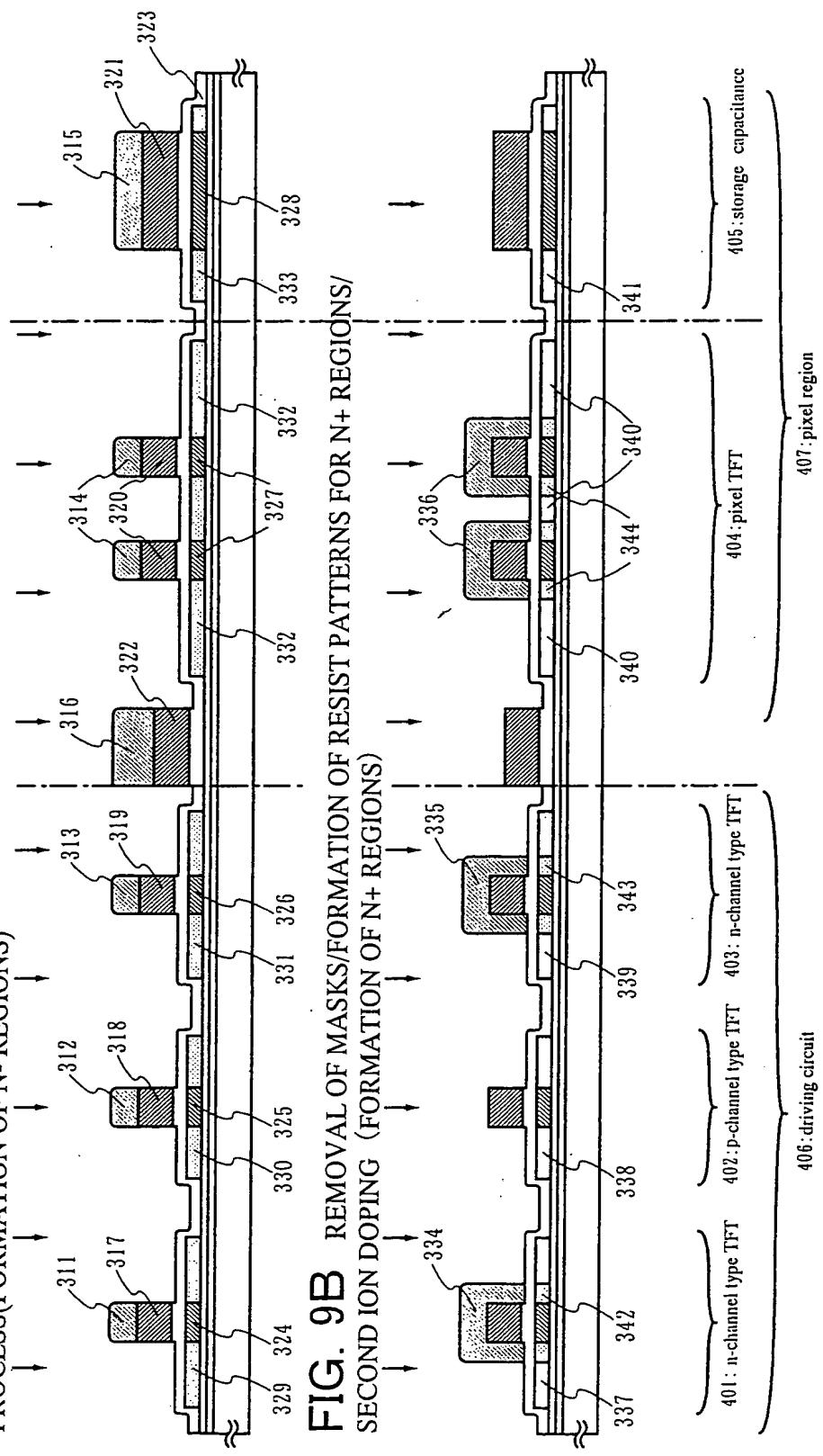


FIG. 9B REMOVAL OF MASKS/FORMATION OF RESIST PATTERNS FOR N+REGIONS/
SECOND ION DOPING (FORMATION OF N+REGIONS)

FIG. 10A REMOVAL OF MASKS(FORMATION OF RESIST PATTERNS FOR P+ REGIONS/THIRD ION DOPING/FORMATION OF P+ REGIONS

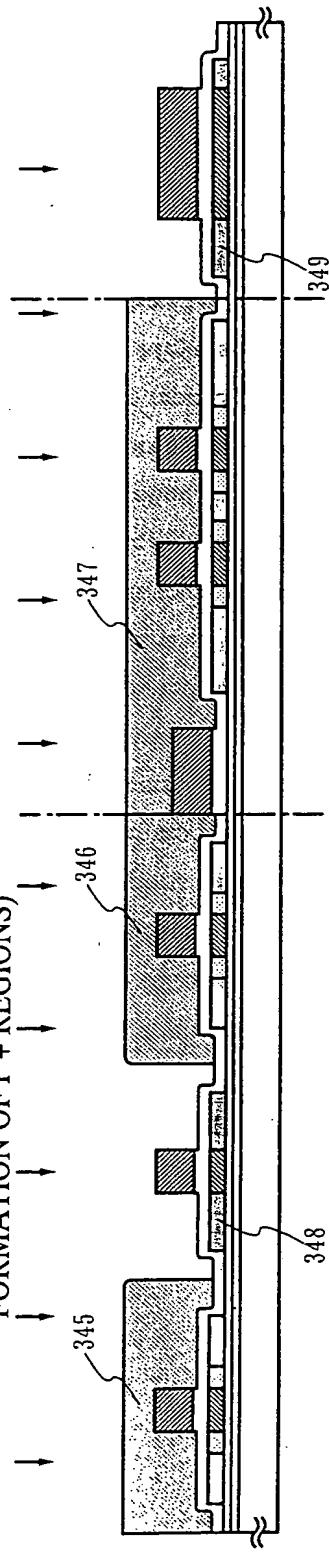


FIG. 10B REMOVAL OF RESIST/DEPOSITION OF FIRST INTERLAYER INSULATING FILM/ THERMAL ACTIVATION

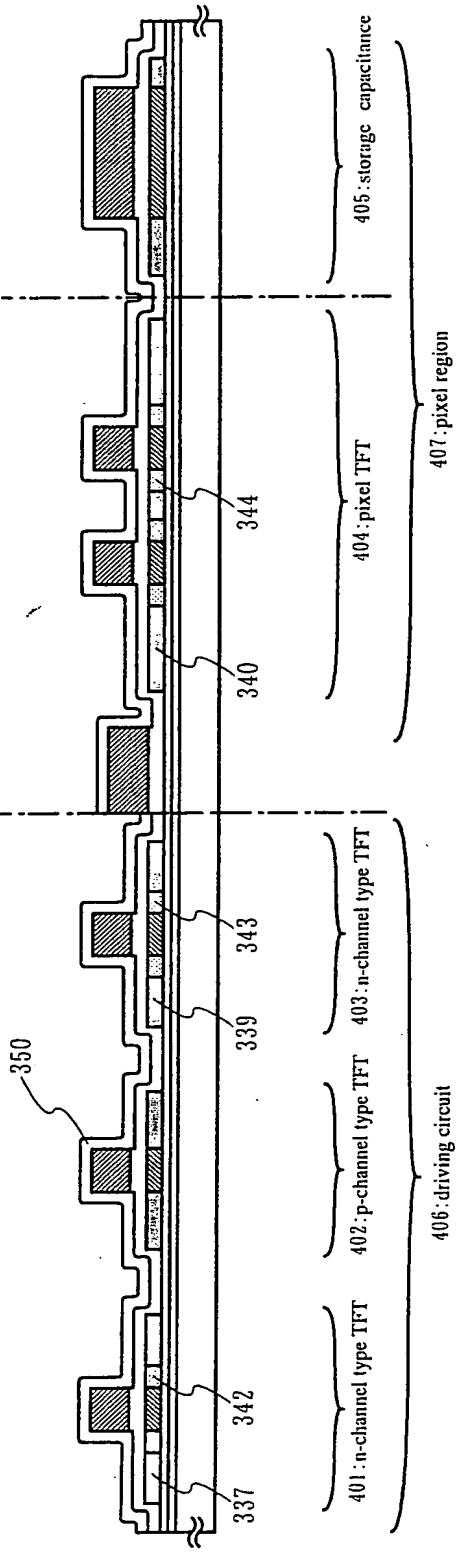


FIG. 11A DEPOSITION OF THE SECOND INTERLAYER INSULATING FILM /FORMATION OF CONTACT HOLES

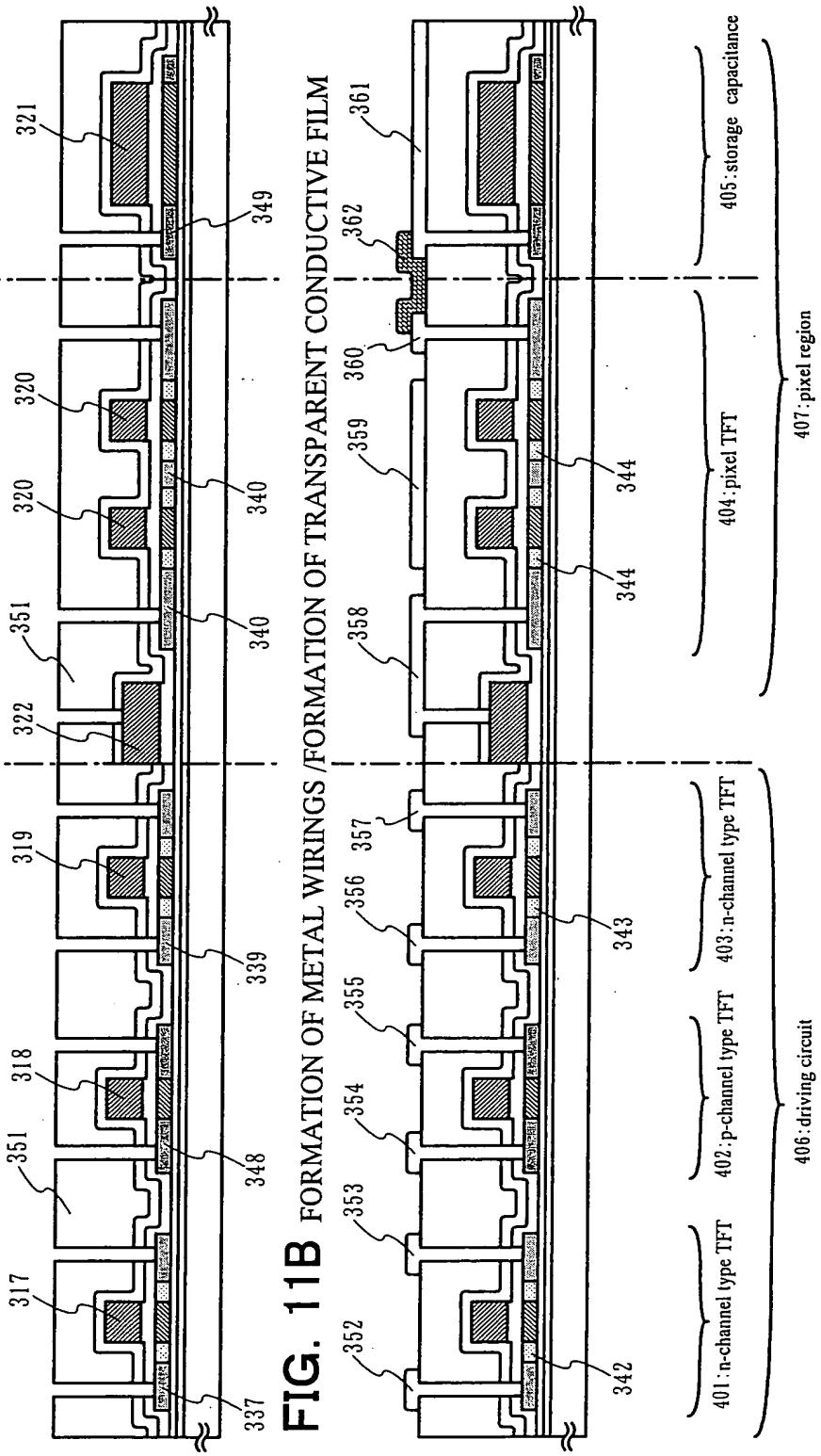


FIG. 11B FORMATION OF METAL WIRINGS /FORMATION OF TRANSPARENT CONDUCTIVE FILM

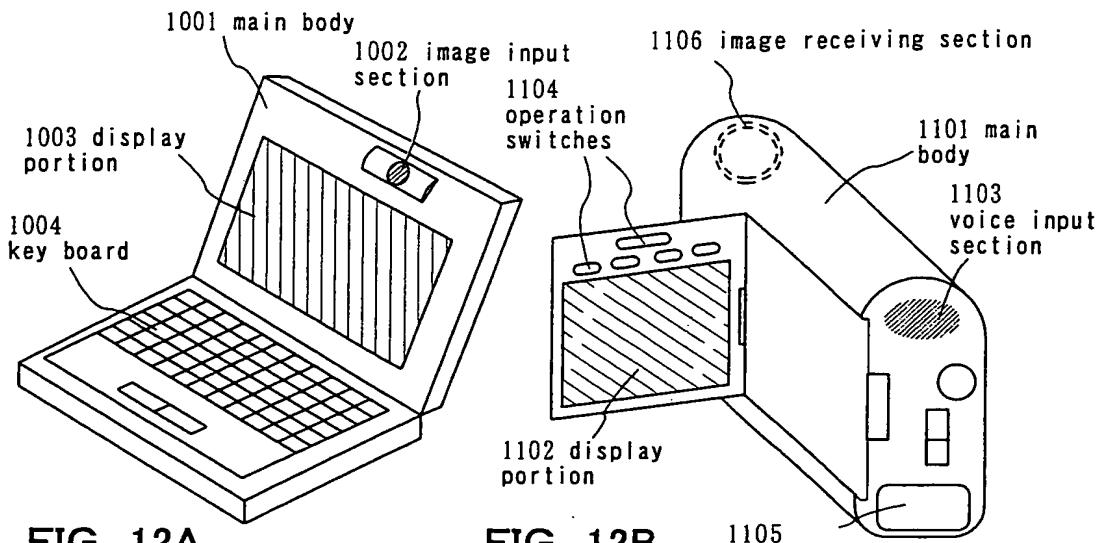


FIG. 12A

FIG. 12B

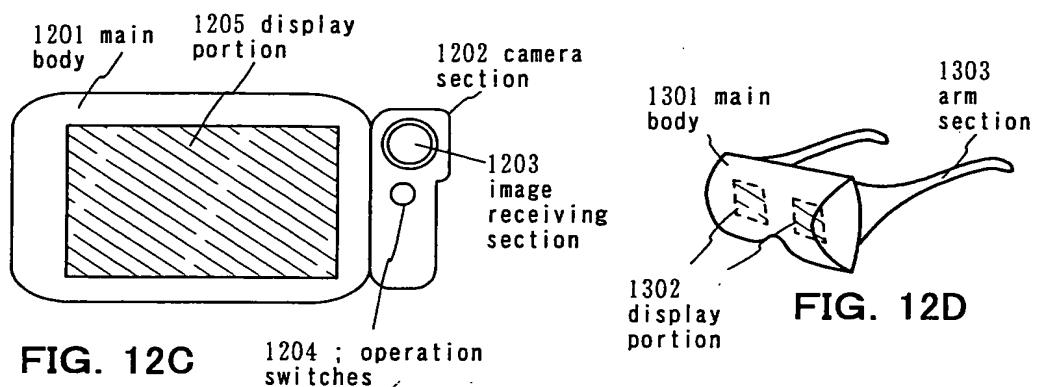


FIG. 12C

FIG. 12D

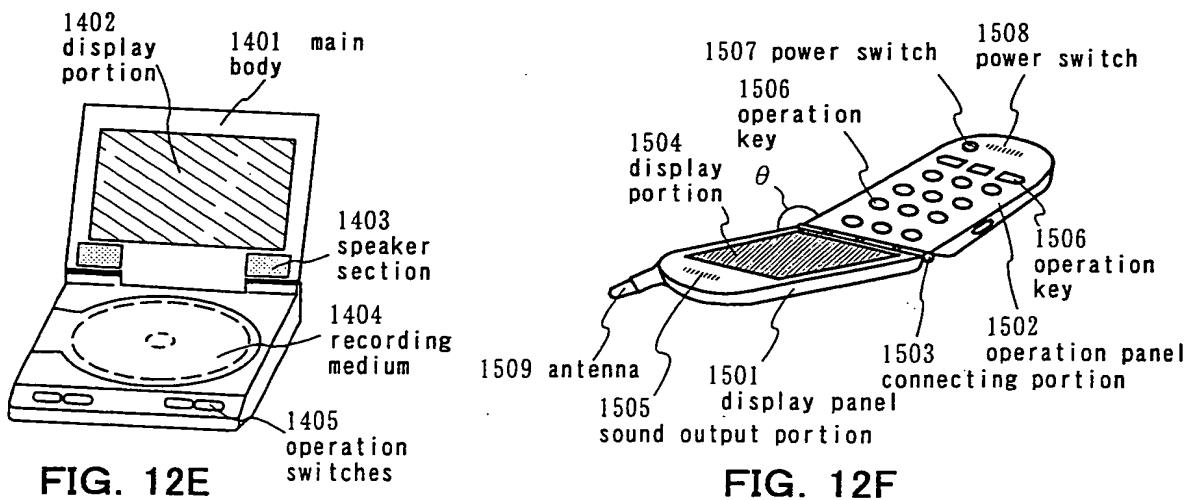


FIG. 12E

FIG. 12F

FIG. 13A

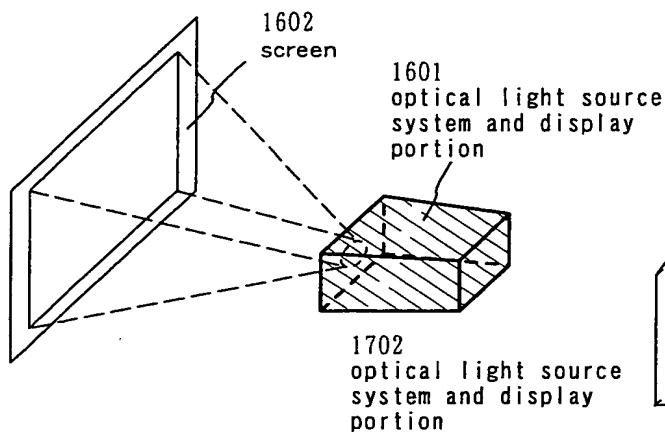


FIG. 13B

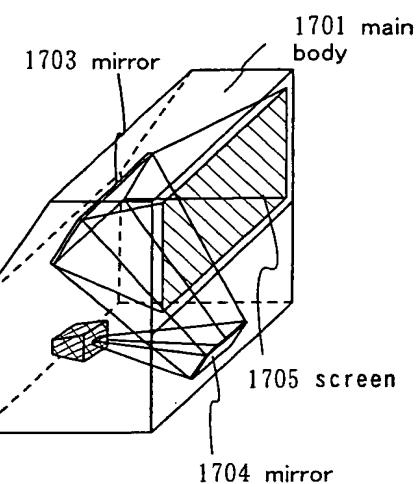


FIG. 13C

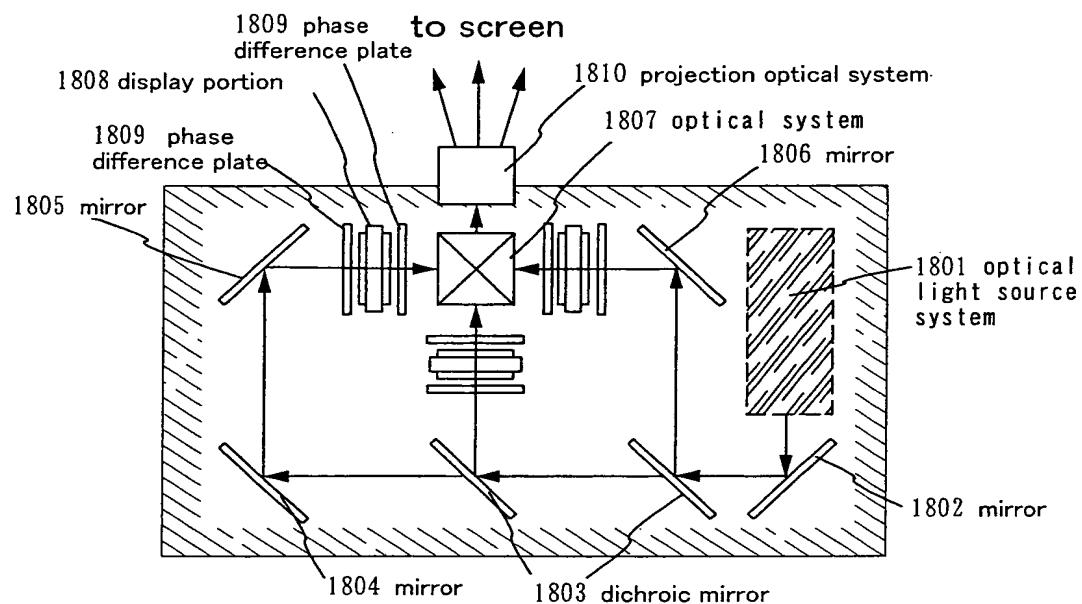


FIG. 13D

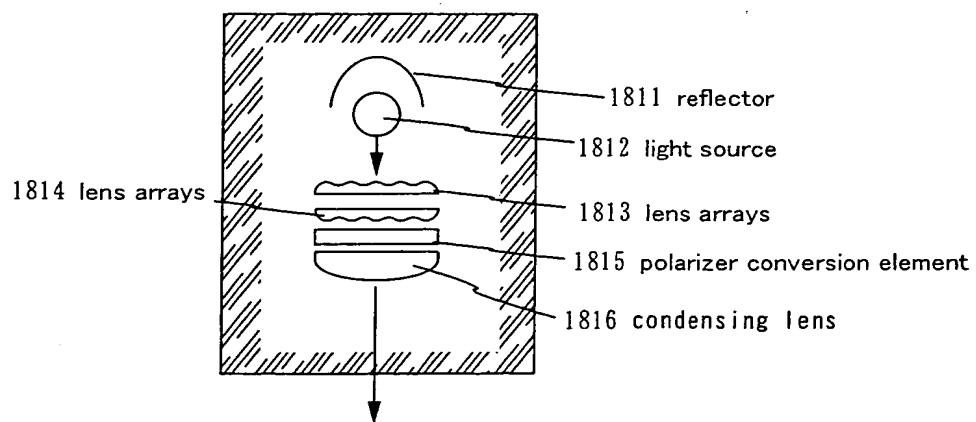


FIG. 14A

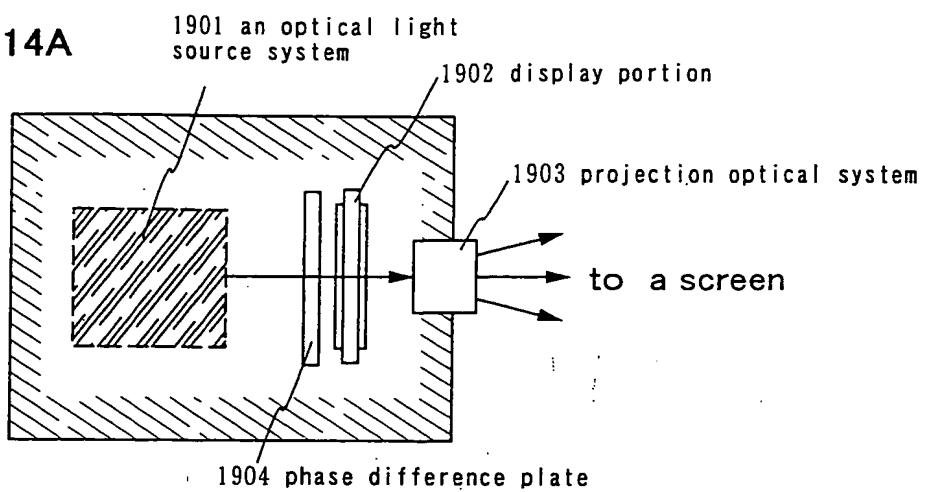


FIG. 14B

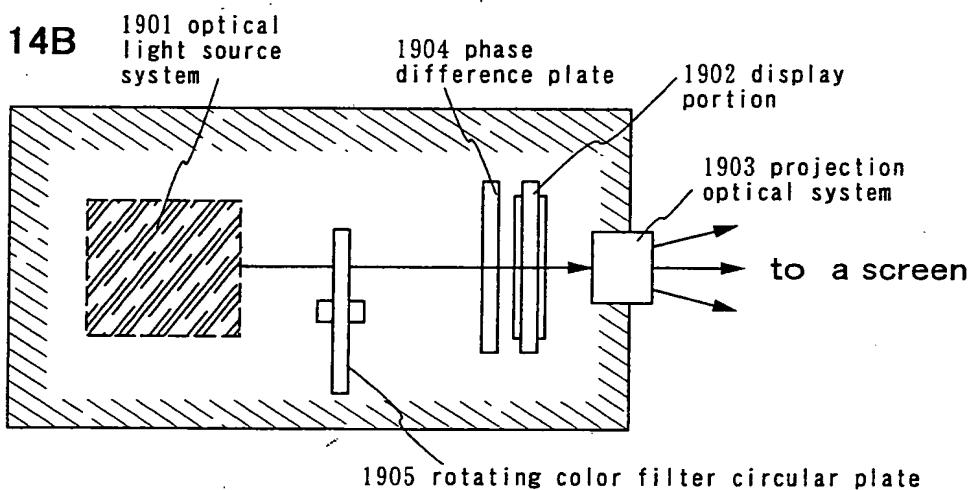
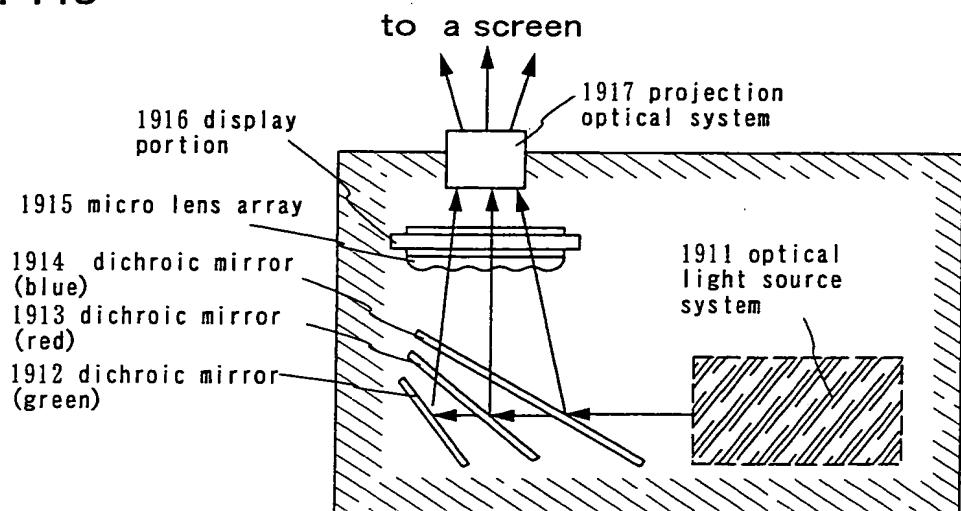
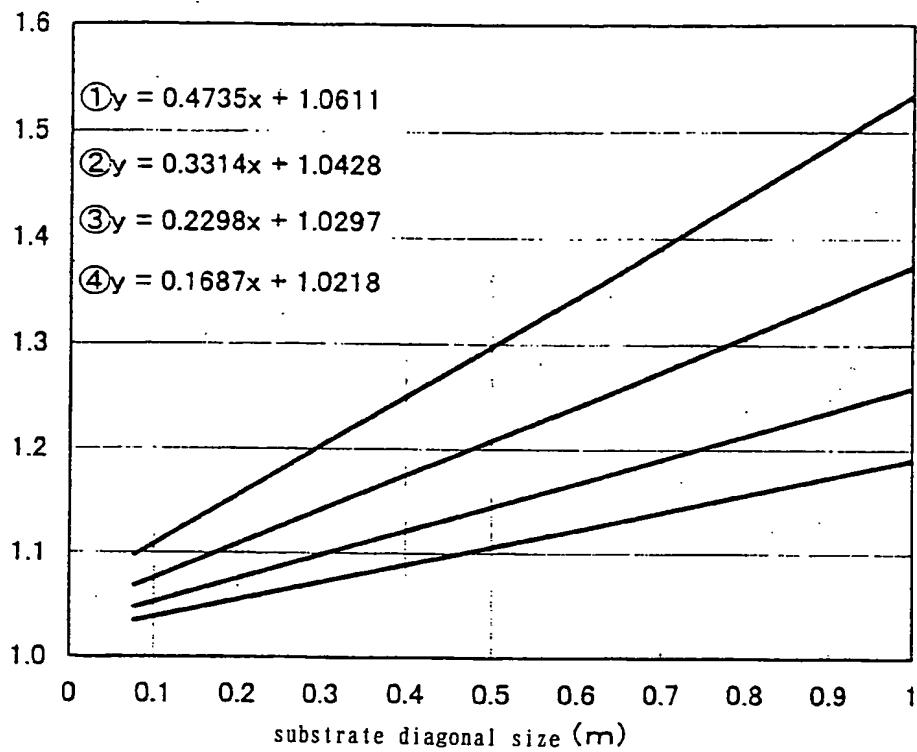


FIG. 14C

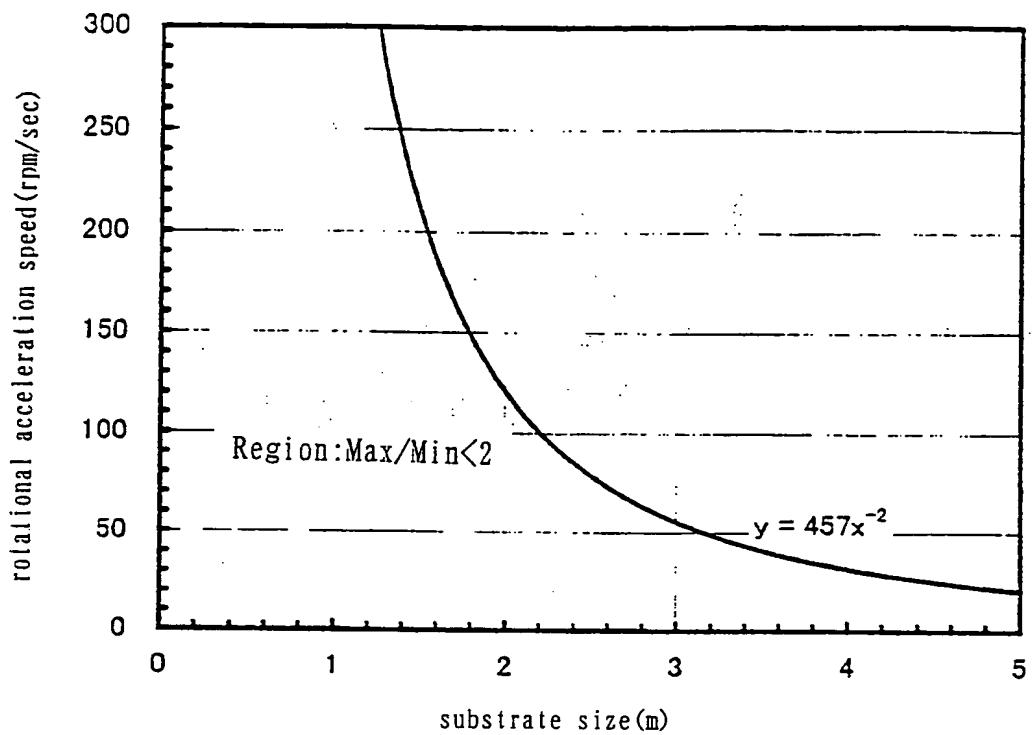


Ni concentration ratio between a center portion of the substrate
and an edge portion of the substrate, with the concentration at the
center portion as one

F I G. 15



F I G. 16



the relationship between substrate size and rotational acceleration speed.